Publication No. MA 3058-52
10/98

MODIFICATION INSTRUCTIONS

for the

KODAK X-Omatic MULTILOADER 300

Service Code 3058

MODIFICATION No. 52

Type 1 SELECTIVE

PURPOSE:
To upgrade the operating software to version 4.00 from version 3.xx

IMPORTANT : Use qualified service personnel to install this modification !

SERIAL NUMBERS : 1001 to 3329

INSTALLATION TIME : Approx. 0.7 hours

SPECIAL TOOLS :LAP TOP COMPUTER
DATA CABLE TL4391

PARTS REQUIREMENTS : MOD KIT #52 PN 9229220

PLEASE NOTE

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ESD

This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use care to prevent damage during all service procedures.

PARTS LIST

PART NUMBER	DESCRIPTION	QTY
9229220	**MODIFICATION KIT No. 52 consists of:**	
MA 3058-52	MODIFICATION INSTRUCTIONS	**1**
9219225	OPERATING and LANGUAGE SOFTWARE V4.00	**1**
9228500	**BOOT EPROM SET consists of:** BOOT EPROM PCB A1 U7 V4.00 BOOT EPROM PCB A3/1 U5 V4.01 (Cass. Unit) BOOT EPROM PCB A3/2 U5 V4.01 (Mag. Unit)	 **1** **1** **1**
G9904619	CES SERVICE SOFTWARE XML300 V4.01 (1 Diskette only)	**1**

INTRODUCTION

Note

The new CES SERVICE SOFTWARE Version 4.01 must be installed on the LAP TOP prior to the new OPERATING SOFTWARE version 4.00.

OPERATING SOFTWARE version 4.00

This is the summary of the changes between OPERATING SOFTWARE Version 4.00 and Version 3.31.

- Internal communication routines are improved to avoid error B3F5.
- After the CASSETTE is opened, the HOLDING FINGER is switched on for 200 msec. This time was 800 msec in the previous version. This should increase the lifetime of the HOLDING FINGER CLUTCH SPRING 9221100.
- Download routines are improved.

SERVICE SOFTWARE version 4.01

This is a summary of the improvements in the SERVICE SOFTWARE version 4.01:

- The SOFTWARE is on just 1 HD DISKETTE (1.44 MB).
- The DOWNLOAD ROUTINES are improved.
- The SERVICE SOFTWARE downloads individual sections (SYSTEM-, CASSETTE-, or MAGAZINE UNIT). Befor a section is downloaded, you will be asked if you want to download or to skip.

INFORMATION ABOUT SOFTWARE DOWNLOAD

When the OPERATING SOFTWARE is downloaded, the PARAMETERS from the XML300 will be saved on the HARD DISK of the LAP TOP. This is done automatically by the SERVICE SOFTWARE (use Version 4.01). After the software for the SYSTEM UNIT is downloaded, the PARAMETERS are written back to the XML300 and the software download continues.

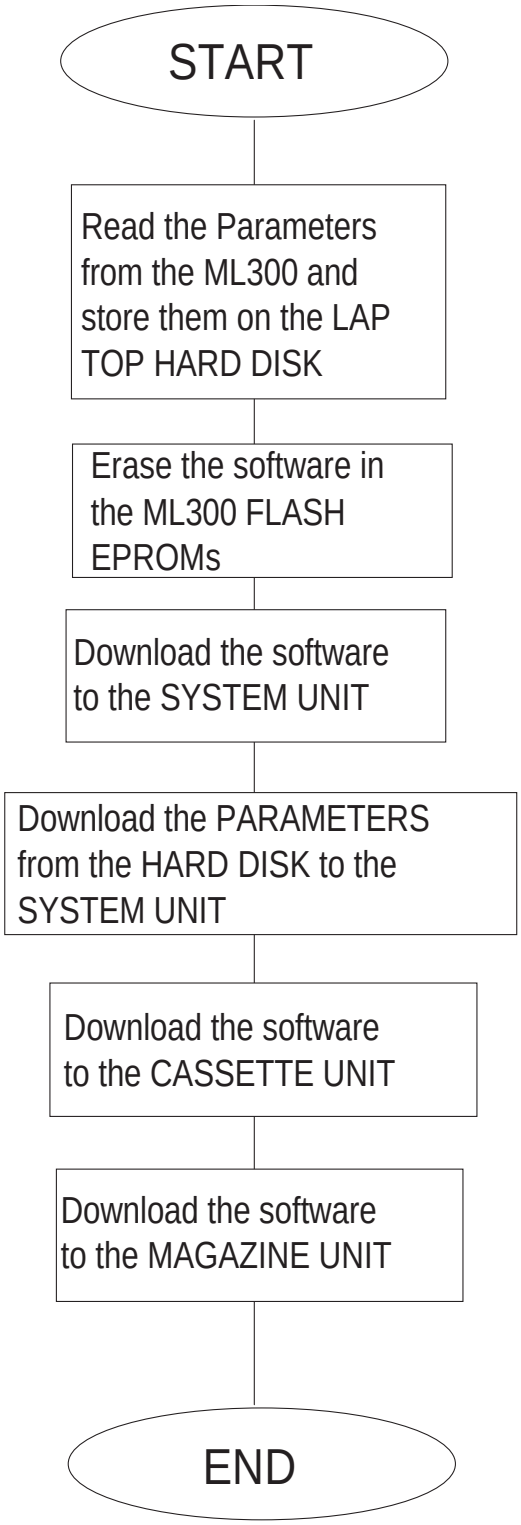
START
Read the Parameters from the ML300 and store them on the LAP TOP HARD DISK
Erase the software in the ML300 FLASH EPROMs
Download the software to the SYSTEM UNIT
Download the PARAMETERS from the HARD DISK to the SYSTEM UNIT
Download the software to the CASSETTE UNIT
Download the software to the MAGAZINE UNIT
END

figure 1

INSTALLATION

INSTALLATION OF THE OPERATING SOFTWARE 4.00

Part 1 Installation of new BOOT EPROM's

For the OPERATING SOFTWARE 4.00 new BOOT EPROM's must be installed. These EPROM's are part of the MODIFICATION KIT.

ESD

This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use care to prevent damage during all service procedures.

1. Switch off the XML 300.

2. Take off the following panels:

- TOP COVER
- REAR PANEL
- RIGHT-HAND SIDE PANEL

3. Replace the existing BOOT EPROM on PCB A1 U7 with the new one from the MODIFICATION KIT. Insert the new BOOT EPROM with the NOTCH to the right.

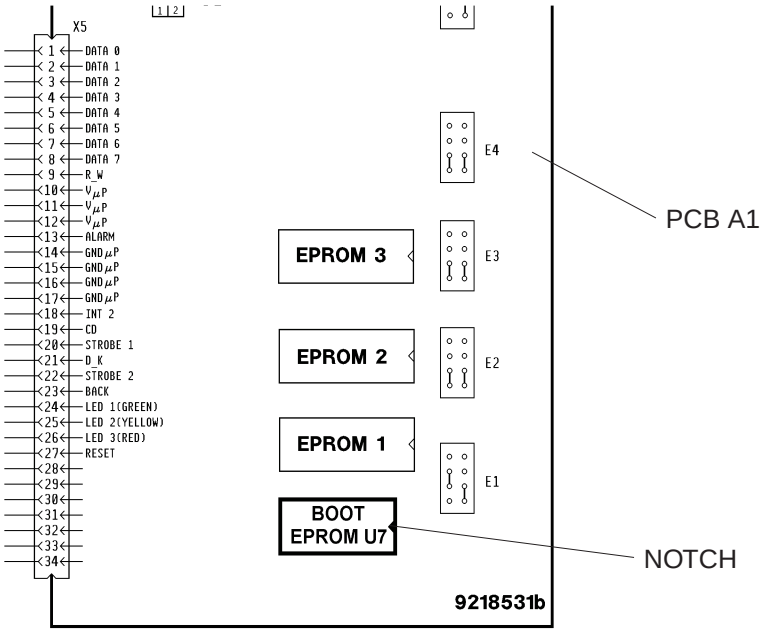

figure 1-2

4. Replace the existing BOOT EPROM on PCB A3/1 U5 with the new one from the MODIFICATION KIT. Insert the new BOOT EPROM with the NOTCH to the right.

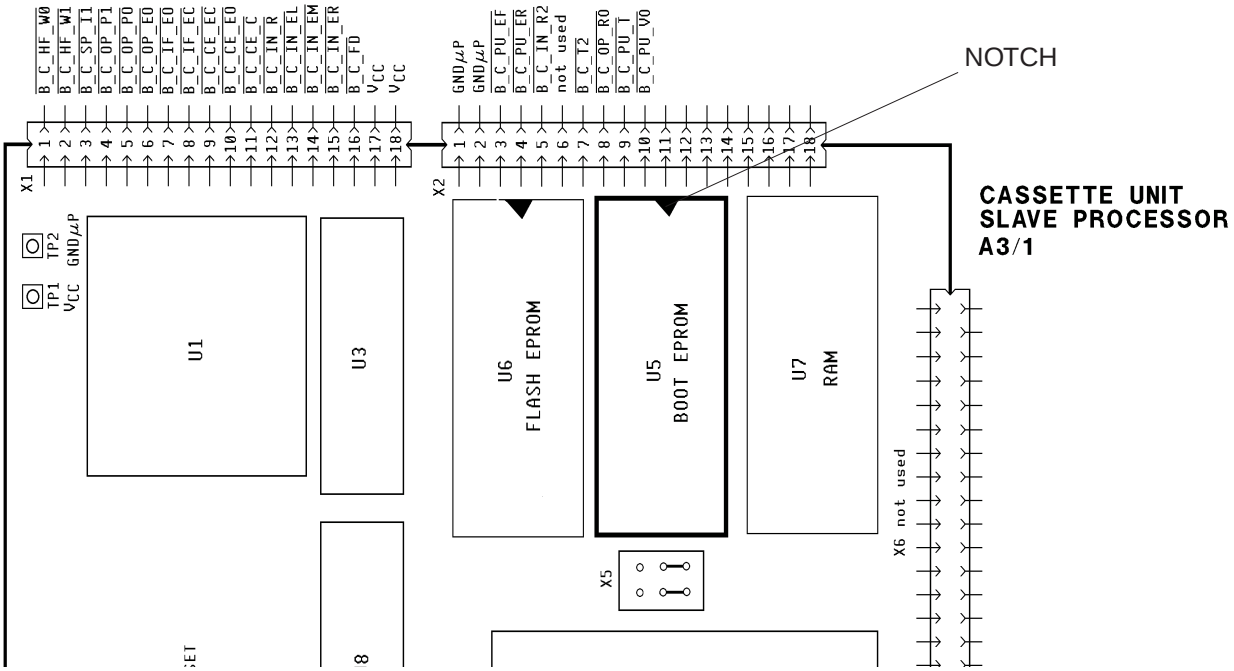

figure 1-3

5. Replace the existing BOOT EPROM on PCB A3/2 U5 with the new one from the MODIFICATION KIT. Insert the new BOOT EPROM with the NOTCH to the right.

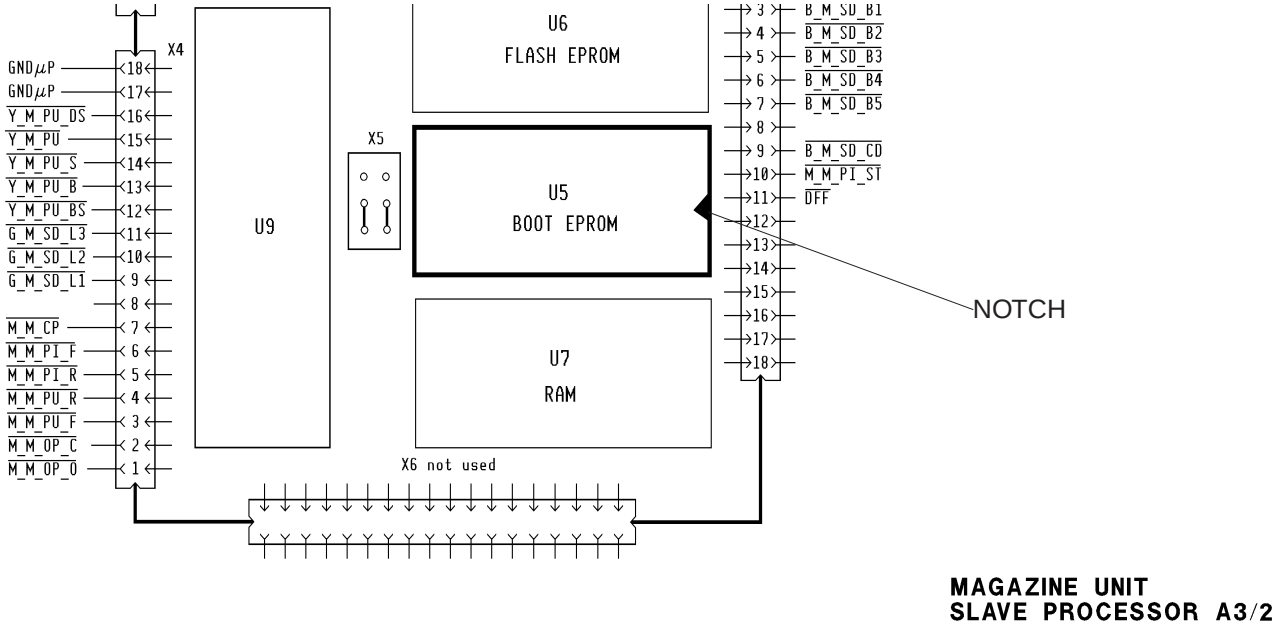

figure 1-4

PART 2 INSTALLATION OF OPERATING SOFTWARE 4.00

Note

- If the the CES SERVICE SOFTWARE V4.01 for the XML 300 is not already on your LAP TOP COMPUTER, you must install it now.
- If the OPERATING SOFTWARE is not successfully downloaded try it again. If the problem persists, try to locate the problem by replacing the MICRO PROCESSOR BOARDS. If during the software update an error code ex0 to ex42 is displayed, see the chapter ADDITIONAL MESSAGES page 2-3 and 2-4 in the DIAGNOSTICS MANUAL.

Download the OPERATING SOFTWARE to the HARD DISK of the LAP TOP.

1. Switch on the LAP TOP COMPUTER

Insert the OPERATING AND LANGUAGE SOFTWARE DISKETTE into DRIVE A:

Key in ***A:*** .....*press ENTER*

Key in ***INSTALL*** .....*press ENTER*

2. After the OPERATING SOFTWARE is successfully loaded to DRIVE C:, take out the DISKETTE and store it in a safe place.

3. Switch back to DRIVE C:

Key in ***C:*** .....*press ENTER*

4. Connect the LAP TOP to the rear connector of the XML300.

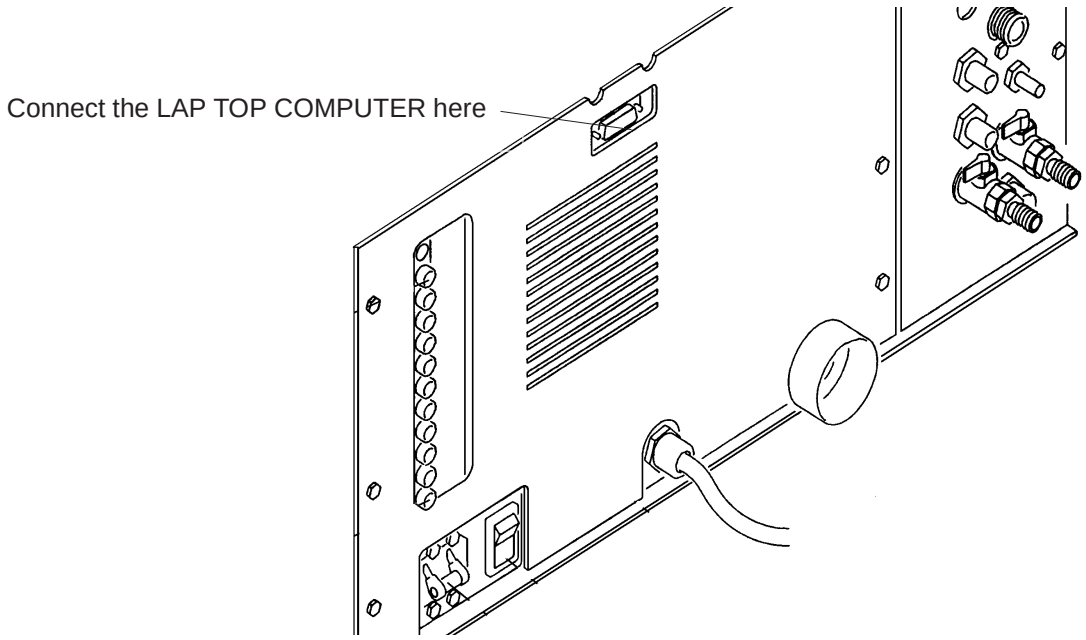

figure 1-5

5. Switch on the XML300.

6. Start the SERVICE SOFTWARE.

*Key in **CD\XML300**.....press ENTER*

*Key in **START**.....press ENTER*

The message "THE OPERATING SOFTWARE IN THE CONNECTED XML300 IS VERSION 0.00" is displayed .....press ENTER

7. Download the OPERATING SOFTWARE from DRIVE C: to the XML300.

Select the desired languages (up to 4).....press ENTER

Note

- Always select your own language first to override the default languages. The selected languages are marked with an asterisk.
- The following languages are the default languages:
  1. GERMAN
  2. FRENCH
  3. SPANISH
  4. ENGLISH
- If no language is selected, the 4 above mentioned languages are downloaded. ENGLISH as language No. 4. If less than 4 languages are selected, the selected languages are downloaded plus the remaining default languages.

Example

Selected language is ENGLISH
Downloaded languages:
1. ENGLISH (selected)
2. FRENCH (default)
3. SPANISH (default)
4. ENGLISH (default)

Select SOFTWARE UPDATE.....press ENTER

*Key in **YES** .....press ENTER*

Do you want to update the OPERATING SOFTWARE in the SYSTEM UNIT.....YES

8. The software of the SYSTEM UNIT is now updated. The amber and the red LED at the OPERATOR DISPLAY are flashing alternately. After the software of the SYSTEM UNIT is downloaded, the error code 00 00 00 00 00 is displayed and the green LED on PCB A1 is switched on.

Note

If a hang-up occurs after downloading the SYSTEM UNIT software, start the software download again and skip the SYSTEM UNIT.

Do you want to update the OPERATING SOFTWARE
in the CASSETTE UNIT.....YES

9. The software of the CASSETTE UNIT is now updated. The red LED on PCB A8 is flashing.

Do you want to update the OPERATING SOFTWARE
in the MAGAZINE UNIT.....YES

10. The software of the MAGAZINE UNIT is now updated. The red LED on PCB A4 is flashing.

The complete operating software is downloaded and the red LED at the OPERATOR CONTROL PANEL is switched on.

11. Switch off the XML300.
Wait 5 seconds.
Switch on the XML300 again.

13. Exit the SOFTWARE UPDATE PROGRAM.

Press any key on the LAP TOP
Select RETURN from SOFTWARE UPDATE .....press ENTER

14. Exit the SERVICE PROGRAM.

Press BACKSPACE twice
Select QUIT XML300 SERVICE MODE .....press ENTER
Select Quit the program .....press ENTER

FINAL TEST

1. Disconnect the LAP TOP COMPUTER from the XML300.

2. Mount all PANELS.

3. Run several cycles with various cassette sizes.

4. Circle No. 52 on the MODIFICATION LABEL.

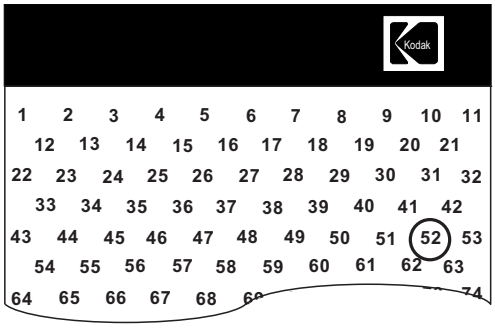

figure 1-6

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